

CLAIMS

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1. A computer implemented method for selecting a rendering intent, the method comprising:
 - receiving a source color image having colors within a source color gamut;
 - receiving a plurality of rendering intents, wherein each rendering intent defines a mapping of colors from the source color gamut to a destination color gamut;
 - simultaneously previewing a plurality of rendered images generated by rendering the received image according to a corresponding rendering intent; and
 - selecting a rendering intent by receiving from a user a selected rendered image from the plurality of simultaneously displayed previewed images.
 2. The method of claim 1, wherein the received color image comprises an entire color image.
 3. The method of claim 1, wherein the received color image comprises a portion of an entire color image.
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 4. The method of claim 1, wherein the plurality of received rendering intents comprises all known rendering intents.
 5. The method of claim 1, wherein the plurality of received rendering intents comprises a subset of all known rendering intents.
 6. The method of claim 1, wherein the step of simultaneously previewing a plurality of rendered images comprises simultaneously displaying them on a monitor.
 7. The method of claim 1, wherein the step of simultaneously previewing a plurality of rendered images comprises printing them on a single sheet of paper.

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8. A computer program product, stored on a machine-readable medium, comprising instructions operable to cause a programmable processor to:

receive a source color image having colors within a source color gamut;
receive a plurality of rendering intents, wherein each rendering intent defines a mapping of colors from the source color gamut to a destination color gamut;
simultaneously preview a plurality of rendered images generated by rendering the received image according to a corresponding rendering intent; and
select a rendering intent by receiving from a user a selected rendered image from the plurality of simultaneously previewed rendered images.

9. A computer implemented method for selecting a rendering intent, the method comprising:

receiving a source color image having colors within a source color gamut;
receiving a plurality of rendering intents, wherein each rendering intent defines a mapping of colors from the source color gamut to a destination color gamut;
generating a plurality of rendered images by rendering the received image according to a corresponding rendering intent;
simultaneously previewing a plurality of difference images, wherein each difference image represents a difference between a rendered image and a reference image; and
selecting a rendering intent by receiving from a user a selected difference image from the plurality of simultaneously previewed difference images.

10. The method of claim 9, wherein the step of simultaneously previewing a plurality of rendered images comprises simultaneously displaying them on a monitor.

11. The method of claim 9, wherein the step of simultaneously previewing a plurality of rendered images comprises simultaneously printing them on a single sheet of paper.

12. The method of claim 9, wherein the reference image is another rendered image.

13. The method of claim 9, wherein the reference image is the source color image.
14. The method of claim 9, wherein a difference image is obtained by subtracting the reference image from a rendered image.
15. The method of claim 9, wherein a difference image is obtained by calculating the least squares difference between a rendered image and the reference image.
16. The method of claim 9, wherein a difference image is obtained by representing the differences between a rendered image and the reference image as a topographical map.
17. The method of claim 10, wherein the topographical map has a color basis.
18. A computer program product, stored on a machine-readable medium, comprising instructions operable to cause a programmable processor to:
- receive a source color image having colors within a source color gamut;
 - receive a plurality of rendering intents, wherein each rendering intent defines a mapping of colors from the source color gamut to a destination color gamut;
 - generate a plurality of rendered images by rendering the received image according to a corresponding rendering intent;
 - simultaneously preview a plurality of difference images, wherein each difference image represents a difference between a rendered image and a reference image; and
 - select a rendering intent by receiving from a user a selected difference image from the plurality of simultaneously previewed difference images.